

Dust Extractors

HD388, HD388PRO



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**ORIGINAL LANGUAGE OPERATING MANUAL FOR
BARTELL RIDE-ON TROWELS**

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REV.	DATE	DESCRIPTION	APPROVED BY:
0	07/25	Initial Release – Vertical HEPA Filter	A.N
1	10/25	Horizontal HEPA Filter, Chamber Door added, all parts diagrams updated	A.N
2	01/26	Updated Flap Part Number	A.N

SAFETY PRECAUTIONS



DANGER

EXPLOSION HAZARD

Never operate the machine in an explosive atmosphere, near combustible materials, or where ventilation does not clear exhaust fumes.



WARNING

BURN HAZARD

Never come into contact with the engine or muffler when engine is operating or shortly after it is turned off. Serious burns may occur.



WARNING

ROTATING HAZARD

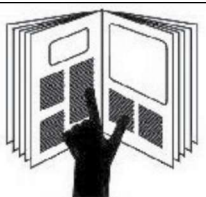
Never place hands or feet inside safety guard rings. Serious injury will result from contact with rotating blades.



CAUTION

MOVING PARTS

Before starting the machine, ensure that all guards and safety devices are in place and functioning properly.



ATTENTION

READ OWNER'S MANUAL

Read and understand owner's manual before using this machine. Failure to follow operating instructions could result in serious injury or death.

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1. About This Manual

This Manual contains the information and procedures to assist you to operate and maintain the HD388 Dust Vacuum machine safely and correctly. Read this Manual before you operate or service the equipment. If you need additional information or assistance, please get in touch with our Customer Service Department:

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Please take note:

- These instructions are for the 460V 3 Phase and Propane HD388 Dust Extractors only.
- The machines are designed to clean construction area and can be connected to medium/large size grinders, etc.
- Please pay attention to all safety regulations.
- Read the complete operating manual prior to using the machines.
- All repairs must be performed by a qualified service person. Use only the replacement parts supplied or specified by Bartell Global.
- Bartell Global shall, under no circumstances, be deemed liable for any accidents or damage caused if the machine is used for other applications or has been used in a way other than those shown in the operating manual.

2. Important Safety Instructions

General Precautions

- The employer must inform and train the user according to the provisions of applicable laws. Use of the machine by untrained and unauthorized persons is strictly forbidden.
- Read the complete instruction manual before operating your dust extractor. Pay particular attention to the safety regulations. Failure to observe the safety regulations could cause serious accidents and injuries.
- Always wear PPE when using dust collector and always wear appropriate respirators and protective clothing while handling dust that may be irritating or toxic
- This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.
- Make sure the assembly area is firm, so the machine does not tip over. Risk of personal and material injury.
- Pay extra attentions when cleaning on slopes, ramps, or stairs.
- Make sure the parked machine remains stable by operating the wheel brake.
- Risk of pinching when handling the toggle fasteners.
- Keep children and unauthorized persons away from machine when in use. Close attention is necessary when operated closed to children.
- Keep hair, loose clothing, fingers and all parts of body away from openings and moving parts (except during a filter cleaning procedure when the machine is unplugged).
- Do not put hose end against skin or clothing during use.
- Make sure all the guards and protection devices are in place and that all the safety devices are in place and working properly.
- Do not open the vacuum container with the machine running.
- Do not wear loose or hanging clothing such as ties, scarves or torn garments that could become trapped and be sucked up by the cleaner.
- Do not use without dust bag and/or filters in place. Replace collection system and/or filters as described in manual.
- Do not modify machine from its original design.
- All repairs must be performed by a qualified service person. Use only manufacturer supplied or specified replacement parts.
- Bartell Global shall, under no circumstances, be deemed liable for any accidents or damage caused if the machine is used for other applications or has been used in a way other than those shown in the operating manual.

Electrical Safety

- Improper connection of the equipment-grounding conductor can result in a risk of electrical shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded.
- Do not modify the plug provided with the machine. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.
- Before using the machine, make sure that the power & voltage corresponds with the voltage shown on the machines rating plate.
- Do not leave machine when plugged in. Unplug cord from outlet when not in use and before cleaning or servicing machine.
- Cables damaged through crushing or splitting can be dangerous if used and should be replaced immediately. Risk of personal injury.
- Do not use with damaged cord or plug. If the machine is not working as it should, has been dropped, damaged, left outdoors or dropped in water. Make sure it is repaired by a qualified person.
- Do not pull or carry by cord, use cord as handle, close a door on cord, or pull cord around sharp edges or corners. Do not run the machine over cord. Keep cord away from heated surfaces.
- Do not unplug by pulling on cord. To unplug, grasp the plug. Not the cord.
- Do not handle plug or machine with wet hands.
- Regularly inspect cord and plug for damage. If cord is damaged, it must be replaced by a qualified person in order to avoid hazard.
- Turn off all controls before unplugging.
- If using an extension cord make sure the cord rating is suitable for this machine.
- Connect to a properly grounded outlet only. See grounding instructions.

Grounding Instructions

The dust extractor must be grounded. If a dust extractor malfunctions or breakdowns, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. The dust extractor is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and regulations.

Propane Safety

Liquid petroleum gas (propane) is flammable and potentially explosive. Always obey proper handling, lighting, and ventilating procedures provided by the manufacturer. Obey the safety warnings and procedures below, which are provided to supplement, not replace or substitute, the manufacturer's instructions.

NOTE: All new propane tanks must be purged before use.

1. Precautions & Warnings

- Wear insulated gloves when you handle propane tanks.
- Do not attempt to adjust the pressure regulator because the manufacturer sets it. Only a qualified liquid petroleum gas service technician should make adjustments.
- Inspect the fuel lines and connectors before each job or at the beginning of the day to detect any possible problems. Never check for propane leaks with an open flame.
- Never use ammoniated household-type detergents to detect leaks or to clean any portion of the fuel system or the tank. These substances can cause cracks on brass fittings and on the fuel line. If the leak cannot be located, take the tank to a certified liquid petroleum gas service representative.
- Never store or carry propane containers in a closed space or inside your passenger vehicle. Propane containers are equipped with safety devices that relieve excessive pressure by discharging gas to the atmosphere.
- Never fill a tank more than 80% of capacity. Overfilling can cause uncontrolled gas flow, which in turn can cause fire and/or an explosion.

2. What to Do If You Smell Gas

- Immediately extinguish any open flames, pilot lights, and all smoking materials.
- Turn the engine OFF; do not touch any electrical switches or other devices that may produce a spark.
- Shut OFF the fuel flow switch.
- Open all doors and windows to allow maximum ventilation.
- Leave the area until the odor clears.
- Inspect the fuel lines and connectors to determine the source of the leak. Correct the problem before you use the Terminator® again.

Ventilation Required

The HD388PRO engine, like all combustion engines, relies on the combustion of fuel and oxygen to produce power. While most of the exhaust produced is in the form of water vapor and carbon dioxide, the engine also produces harmful carbon monoxide (CO). CO is a colorless, odorless, toxic gas that will cause significant illness or death in sufficient concentrations.

NEVER run the HD388PRO in enclosed or confined areas without sufficient ventilation.

IMPORTANT! OSHA Requirement – What Service Personnel Should Know!

The CO level shall not exceed 35 parts per million (PPM) measured over an 8-hour period in the work environment. 1,000,000 PPM is equivalent to 100% of all exhaust gases. For each one one-hundredth of one percent, you will have 100 PPM. With adequate ventilation and following the enclosed adjustment instructions, you should be able to keep the CO level below the OSHA requirement. Innovatech strongly recommends the use of a CO analyzer.

Carbon Monoxide Information

U.S. Department of Labor – Program Highlights

Fact Sheet No. OSHA 92-11

1. What is Carbon Monoxide

Carbon monoxide (CO) is a colorless, odorless, tasteless gas, and is a common industrial hazard. Mild poisoning can cause such symptoms as nausea, dizziness, or headaches while severe poisoning can result in brain or heart damage, or even death. The incomplete burning of any material containing carbon, such as gasoline, natural gas, oil, propane, coal, or wood, produces this poisonous gas. Forges, blast furnaces, and coke ovens all produce CO, but one of the most common sources of exposure in the workplace is the internal combustion engine. Be suspicious of CO poisoning if you develop dizziness, a flushed face, headaches, or general weakness. Although CO is itself odorless, it may mix with other gases that do have an odor. Therefore, be aware that the smell of other gases does not automatically exclude the presence of CO.

2. Are You Likely to Be Poisoned?

If you have a heart condition, your condition may be aggravated by CO exposure. Ingestion of barbiturates or alcohol may increase the effects of CO exposure. Smokers have a higher carboxyhemoglobin than non-smokers, and therefore face a greater risk of CO exposure on the job. Harmful levels of CO are a potential danger to acetylene workers, blast furnace workers, boiler room workers, brewery workers, carbon black makers, coke oven workers, diesel engine operators, dock workers, garage mechanics, metal oxide reducers, miners, organic chemical synthesizers, petroleum refinery workers, pulp and paper workers, steel workers, toll booth and tunnel attendants, and warehouse workers.

3. What Are the Symptoms?

Large amounts of CO can kill in minutes. The more CO in the air and the longer you are exposed to it, the greater the danger. Any one or more of the following symptoms can signal CO poisoning: headaches, tightness across the chest, nausea, drowsiness, inattention, or fatigue. As the amount of CO in the air increases, symptoms that are more serious may develop such as lack of coordination, weakness, and confusion. The poisoning can be reversed if caught in time. However, even if you recover, acute poisoning can result in permanent damage to the parts of the body that require oxygen, such as the heart and brain. There is a significant reproductive risk involved with CO. An American Journal of Industrial Medicine article quotes two studies showing that acute CO exposures that were non-lethal to the mother were associated with fetal loss.

4. What Can You Do About CO?

If you suspect CO, get out of the area and into the open fresh air. Remove anyone overcome by the gas immediately and give the person artificial respiration. Call for a doctor and continue the artificial respiration until the doctor arrives or the person recovers. Prompt action can make the difference between life and death.

5. Employers

- Install an effective ventilation system to remove poisonous CO from the area.
- Maintain appliances and equipment in good order, adjusting flames, burners, and drafts to reduce the formation of CO.

- Consider switching from fossil fuel-powered equipment to battery-powered machinery when possible.
- Provide approved respirators for emergency use. Regular respirators (negative pressure) will not work in this atmosphere. If necessary, provide an independent air supply to workers.
- Install CO monitors or regularly test air in areas when CO is generated or used.
- Provide pre-placement and periodic medical examinations for workers who may be exposed to CO. If possible, transfer affected workers to other jobs.
- Inform workers of the hazards of CO and train them in the proper use of respirators.

6. Workers

- Report to your employer any condition that might make CO form or accumulate.
- Be alert to ventilation problems, especially in enclosed areas where gases of burning fuels may be released.
- Report complaints early. Do not overexert yourself if you suspect CO poisoning. Physical activity increases the body's need for oxygen, increasing the danger of poisoning.
- If you get sick, tell your doctor about the possibility of exposure to CO.
- Think carefully about your smoking habits. Tobacco, when burned, releases CO which reduces the oxygen-carrying ability of the blood even before any industrial exposure is factored in.

7. Federal Standards

The Occupational Safety and Health Administration (OSHA) standard for exposure to CO prohibits workers' exposure to more than 50 parts of gas per million parts of air (PPM), averaged over an 8-hour workday. There is also a ceiling limit of 200 PPM measured over a 15-minute period.

Dust Safety

Explosive or Flammable Dust

Operators must remain vigilant about the physical and chemical characteristics of the dust being collected, as many types of dust can become flammable or explosive when airborne—particularly in filter receiver systems. It is essential that customers identify any materials or processes that may pose such risks. Additionally, any changes to the process—such as introducing new materials, altering quantities, or modifying the chemical composition—can significantly increase the potential for fire or explosion. Please refer to OSHA and NFPA codes to prevent any accidents or injuries surrounding flammable or explosive dust.

Respiratory Dust

Exposure to airborne dust on job sites can pose serious respiratory health risks, especially when particles are fine enough to be inhaled deeply into the lungs. To minimize these risks, always operate dust collectors according to manufacturer guidelines and ensure they are equipped with appropriate filters, such as HEPA filters, depending on the application. Regular maintenance, including filter checks and system inspections, is essential to ensure optimal performance. Operators should also wear suitable respiratory protection when working in dusty environments, particularly during maintenance or cleanup tasks when dust may become airborne.

Silica Dust Hazards

Crystalline silica, commonly found in materials like concrete, brick, and stone, is particularly hazardous when inhaled. Prolonged exposure to respirable silica dust can lead to serious health conditions, including silicosis, lung cancer, and chronic obstructive pulmonary disease (COPD). When working with materials that generate silica dust, it is critical to use dust collectors specifically designed to capture fine particulate matter and to ensure they are properly sealed and maintained. Wet cutting methods, local exhaust ventilation, and the use of NIOSH-approved respirators are also recommended to further reduce exposure. Always follow local occupational health regulations, such as those from OSHA or CSA, to ensure compliance and worker safety.

Servicing Safety

- When cleaning and servicing the machine, you must switch off the machine and remove the plug from the outlet.
- Don't clean the machine with a high pressure cleaner. If necessary, do not direct at the openings on the machine, especially the opening for cooling air.
- Before moving the machine from the work area, the machine must be cleaned.
- Proper personnel protective equipment must be used while replacing the pre-filter or the HEPA filter. If possible, use a special suitable room.
- All parts which are contaminated after service must be properly disposed of in plastic bags according to all regulations.
- If the machine has to be used for other purposes, it is extremely important that the machine is cleaned, to avoid the spread of hazardous dust.
- Do not puncture the HEPA filter. Risk of dust dispersion.

3. Unpacking

When unpacking the machine, make sure that the following accessories are included:

- A 2" hose and 3" hose with end fittings
- A metal wand (2" diameter)
- Floor tools (2" Diameter)
- Drop down bags and bag strap
- Propane Tank (HD388PRO version only)

If any of the above-mentioned parts are missing, please contact your local distributor or our sales representative.

4. Intended Use

The machine is designed for vacuuming and separating dry, non-combustible dust with an explosion limit value of 0.1mg/m³.

- Do not use the machine outdoors or on wet surface, this machine is designed for indoor and dry use only.
- Do not expose machine to rain or moisture, store indoors only.
- Do not use to pick up any type of liquids.
- Do not use to pick up any flammable or combustible substances, or the substances which could cause explosions (fuels, solvents, etc.), don't use in an area where they may be present.
- Do not use to pick up any substances that is burning or smoking substances, such as cigarettes and matches, or hot ashes.
- Bartell Global shall, under no circumstances, be deemed liable for any accidents or damage caused if the machine is used for other applications.

5. Operating Instructions

Electric version

Before starting a vacuuming process,

- check and ensure all filter bags are secured to the lower bag plate, and the top of the bags are attached to the shaker ring. Bags should not be loose or out of place.
- make sure the machine is properly connected to a machine or a floor tool via the provided hose and fittings.
- check the power cable and the plugs are in a good condition.
- make sure the power voltage corresponds to that on the rating plate and connect correctly the power plug to a power socket

Turn on the **power switch** to start a vacuuming process.

Propane Version

Before starting a vacuuming process,

- check and ensure all filter bags are secured to the lower bag plate, and the top of the bags are attached to the shaker ring. Bags should not be loose or out of place.
- make sure the machine is properly connected to a machine or a floor tool via the provided hose and fittings.
- Check propane hose is in good condition and properly connected to the propane tank

Turn key to start position and release key when the engine starts. Increase throttle until max throttle is achieved to start a vacuum process.

Vacuuming

During the vacuuming process, dust-laden air is sucked through the flexible hose and inlet valve at a high speed. The air is then slowed down by the cyclone, and coarse dust particles are separated out partly by centrifugal force and partly by gravity. Air and finer particles pass through the pre-filter at the first stage and the HEPA filter at the final stage where separation is made.

Filter Cleaning

The machine is designed for filter cleaning by shaking, using the shaker lever/knob.

The filter bags should be shaken at least once daily after each use. To shake the filter bags, use the external lever located at the top of the filter unit. Grab the handle and apply a series of PUSH/PULL strokes to shake the bags and dislodge the particles on the inside of the filter bags and drop them into the dust collection bag.



Dust collecting and bagging.

The machine is equipped with a continuous fold bag system for an effective dust collecting and bagging. The supplied fold bag is a 22 m long plastic tube that will be divided into individual bags using the zip ties attached with the machine.

To assemble a new fold bag:

- 1) Release the belt holding the last bag and take off the bag holder.
 - 2) Put in a new fold bag & pull out the inner end upwards.
 - 3) Assemble the holder onto the machine and strap the opening facing upwards with the belt.
 - 4) Pull down the outside end and close it using a zip tie.
- Before changing a fold bag or a regular bag, make sure the filter cleaning cycle has been completed.

6. Filter Change

Unhealthy dust can be spread during filter change. Accordingly, the user should wear protective glasses, protective gloves, and a breathing mask conforming to protection class FFP3. Remember to switch off and unplug the machine before servicing.



Change of Filter Bags

- 1) Remove the top of the filter bag from shaker assembly inside the tank
- 2) Squeeze the spring cuff at the bottom of the bag compressing the snap ring and remove it from the hole in the plate
- 3) Reinstall the new filter bag to the shaker assembly at the top
- 4) Squeeze the spring cuff at the bottom of the bag compressing the snap ring and insert it into the hole in the bottom plate. Make sure it is the correct hole for that filter.

IMPORTANT! Failure to assure proper seating of the bag into the bag plate will allow material leakage.

Change of HEPA Filter

- 1) Loosen the locknut on the filter cover and remove the cover. Take out a new filter from its bag. Lift out the used HEPA filter from its chamber and place it gently into the filter bag. This bag must be closed and disposed properly.
- 2) Insert a new filter to the filter chamber.
- 3) Put back the filter cover and reinstall the locknut properly.

IMPORTANT! HEPA filters can't be cleaned, trying this might destroy it. When installing the replacement filter, make sure you do not touch the inside of the filter. Any kind of force/damage on the inside of filter media will destroy the new filter.

7. Technical Specifications

Data	unit	HD388	HD388PRO
Voltage	V	460V	N/A
Max. Power	W	6,300	11,000
	HP	8.5	14.5
Current	A	14.5	N/A
Max. Air Flow	m ³ /h	659	659
	CFM	388	388
Main Hose Dia	mm	76.2	76.2
	Inch	3	3
Main Hose Length	meter	12.2	12.2
	feet	40	40
Inlet	mm	76.2	76.2
	inch	3	3
Pre-Filter (EN779-F8)	%	90 ≤ Em < 95	90 ≤ Em < 95
Pre-Filter Surface Area	m ²	2.17	2.17
	ft ²	23.5	23.5
HEPA Filter (EN1822-H13)	%	99.95	99.95
HEPA Filter Surface Area	m ²	3.08	3.08
	ft ²	33.25	33.25
Dimensions (L x W x H)	mm	1220 x 760 x 1800	1420 x 760 x 1800
	inch	48 x 30 x 71	56 x 30 x 71
Weight	kg	225	288
	lbs	496	636

8. Troubleshooting

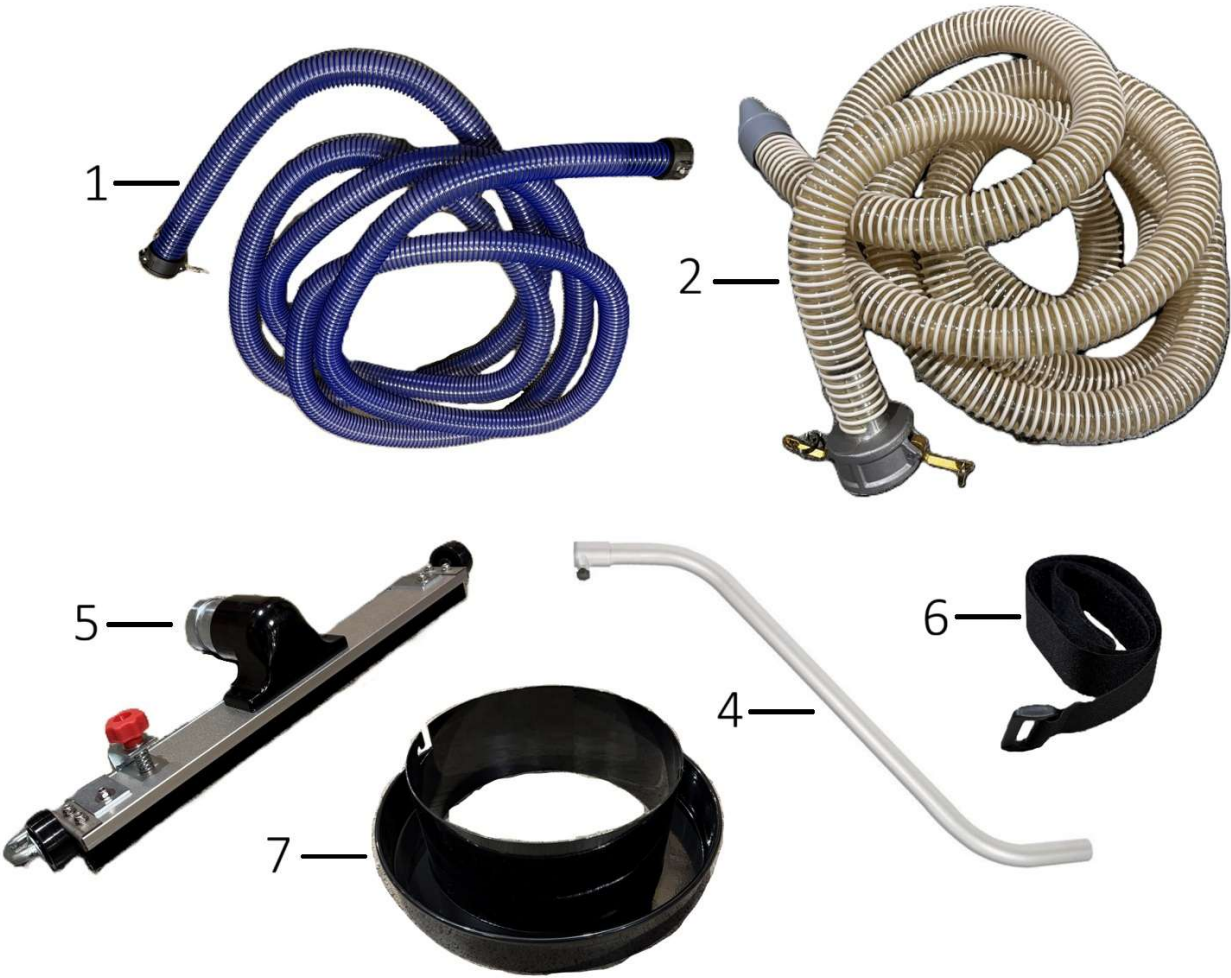
The machine is designed and manufactured for a specific severe environments and tasks. Its filter, seals, attachments, and fittings are customized or selected specifically for the applications. Please note that the machine must be protected from knocks and blows. The operator and service personnel must treat the machine with care for it to work correctly for an expected life span.

Problem	Cause	Solution
Electric motor fails to start	No power	-Check power supply. -Make sure power cable and plugs are in a good condition and properly connected -Check the power switch is in a good condition and properly connected.
Propane motor fails to start	Throttle fully open	Check throttle lever and adjust
	Propane tank, overfilled/empty/not vapor draw/valve turned off	-Check propane tank is filled to max 80% -Check propane tank is vapor draw -Open valve
	Battery is dead/disconnected	Check battery for voltage and check battery wires are connected and in good condition
	Gas line or filter plugged, hose is damaged	-Check line for damage or blockage -Check filter is not blocked
Motor runs but no suction	Hose not connected	Connect hose
	Hose clogged or blocked	Clean hose
	No dust collection bag	Fit dust collection system
Motor runs but with poor suction	Hole in hose	Replace hose
	Filter clogged	Clean filters or replace filters
	Defective seals or gaskets	Replace defective seals or gaskets
Dust leaks out	Hole in hose	Replace the defective hose
	Damaged filter	Replace the damaged filter

9. Parts Breakdown



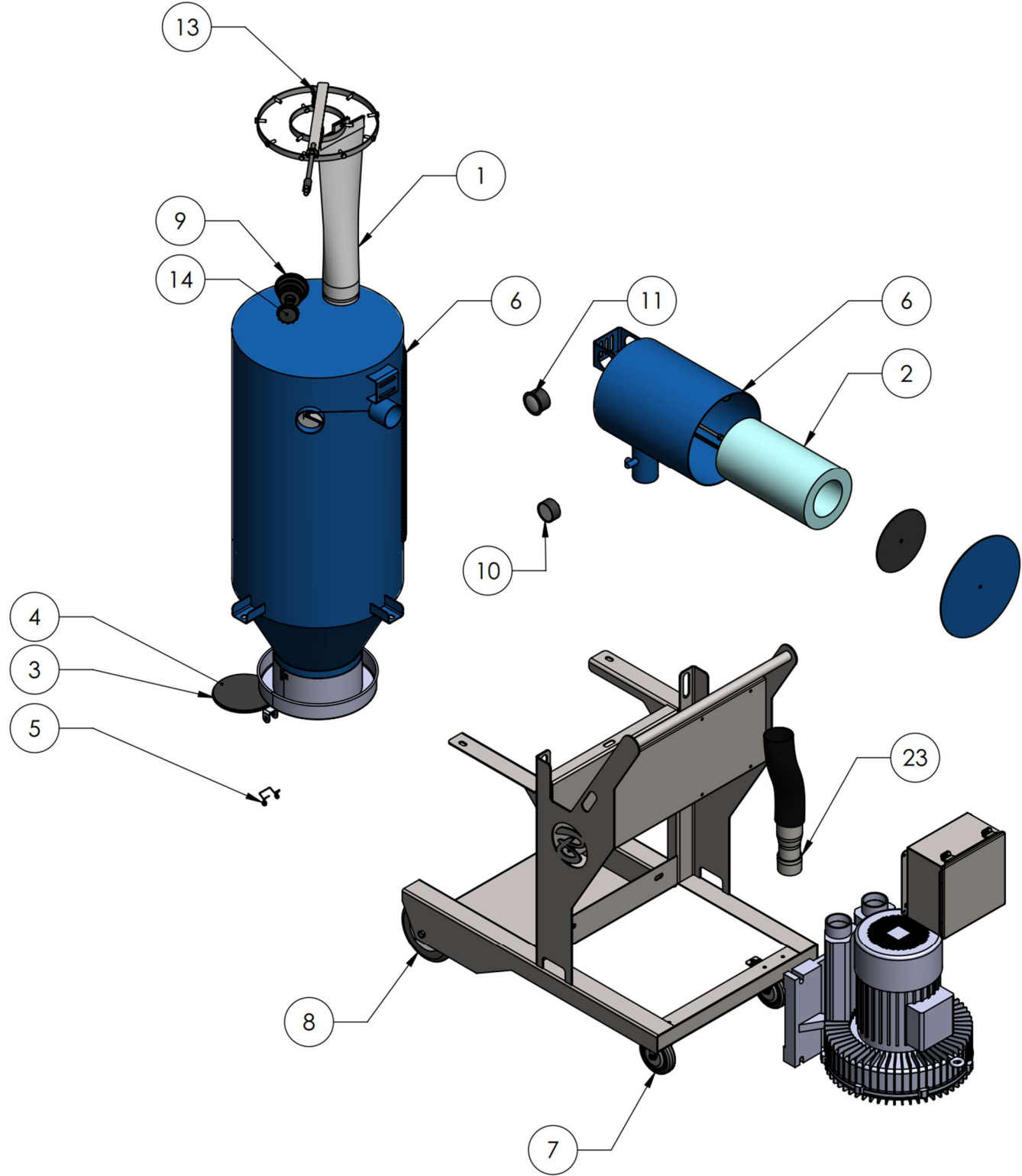
HD388 Accessories



HD388 Accessories

Item No.	Part Number	Description	Qty.
1	03-0043	3"x40' Vacuum Hose Assembly	1
2	03-0044	2"x50' Vacuum Hose Assembly	1
	32833-0005	Drop-down Bag	1
4	32833-0028	2" Wand	1
5	32833-0029	Floor Brush, 2" Port	1
6	32833-0110	Packing Belt	1
7	32833-0012	Drop-down Bag Holder	1

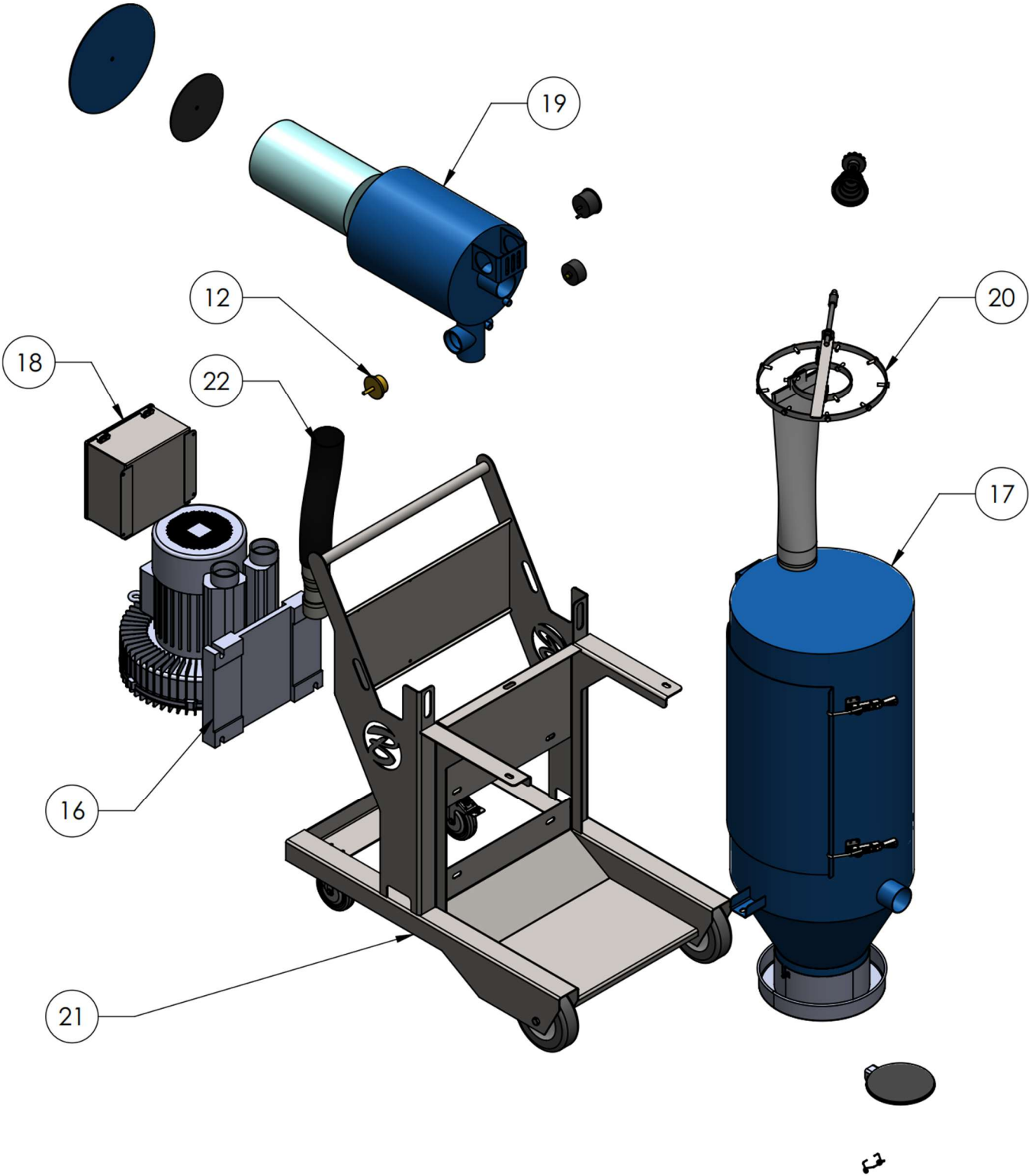
PARTS LIST 1: HD388 460v Assembly



PARTS LIST 1: HD388 460v Assembly

Item No.	Part Number	Description	Qty.
1	320019	Filter Bags, 4" x 23.5"	1 set/12
2	320027	Inline Filter Element, HEPA	1
3	320066	Discharge Flap Kit	1
4	320022	Foam weather stripping, 1/8" thk x 7"dia (PSA)	1
5	320041	Torsion Spring, Discharge Flap	1
6	320024	Gaskets for Filter Housing Service door, Inline Filter, Service door	
7	320016	Caster, Swivel with Brakes, 5"	2
8	320015	Caster, Rigid Wheel, 8"	2
9	320035	Rubber Boot	1
10	320026	Gauge, Vac, 2" Diam x 1/4" Back, 0-30" Hg	1
11	320025	Gauge, DP, 5015, 0-15" Wg	1
13	320038	Spring, Shaker Rack Suspension	1
14	320031	Knob, 1/2-13 Threaded Hole - Shaker	1
23	320044	Blower Inlet Adapter (Fabrication)	1

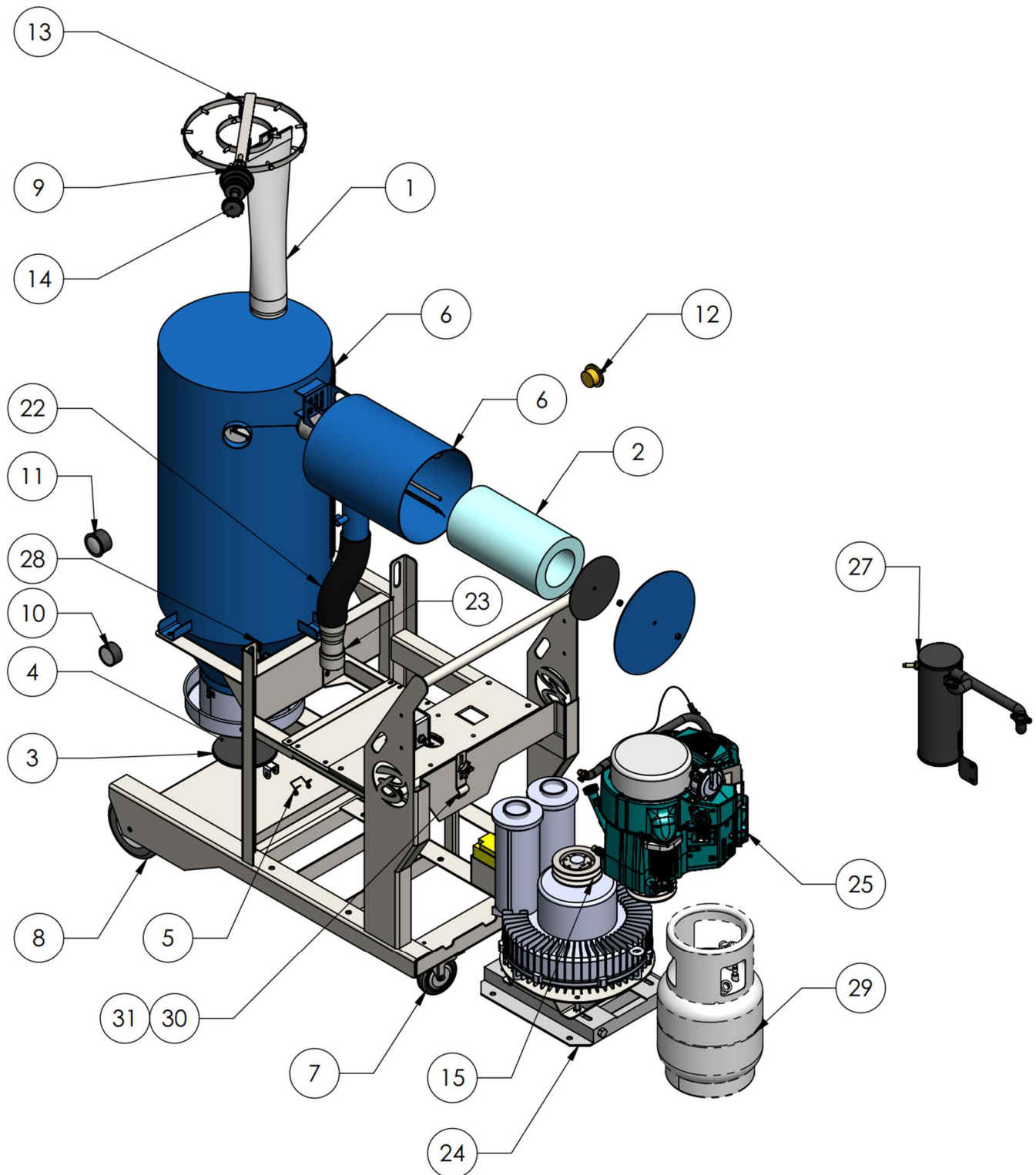
PARTS LIST 2: HD388 460v Assembly



PARTS LIST 2: HD388 460v Assembly

Item No.	Part Number	Description	Qty.
12	320042	Vac Relief Valve Assembly, 2.0" NPT, 8" Hg Max, Brass	1
16	320050	RT-7063 Regenerative Blower	1
17	320046	Filter Housing Weldment (Fabrication)	1
18	320045	Control panel	1
19	320047	Inline Filter Housing (Fabrication)	1
20	320051	Shaker Rack Weldment (Fabrication)	1
21	320049	Main frame (Weldment)	1
22	320048	Interconnect Hose with Hose Clamps	1

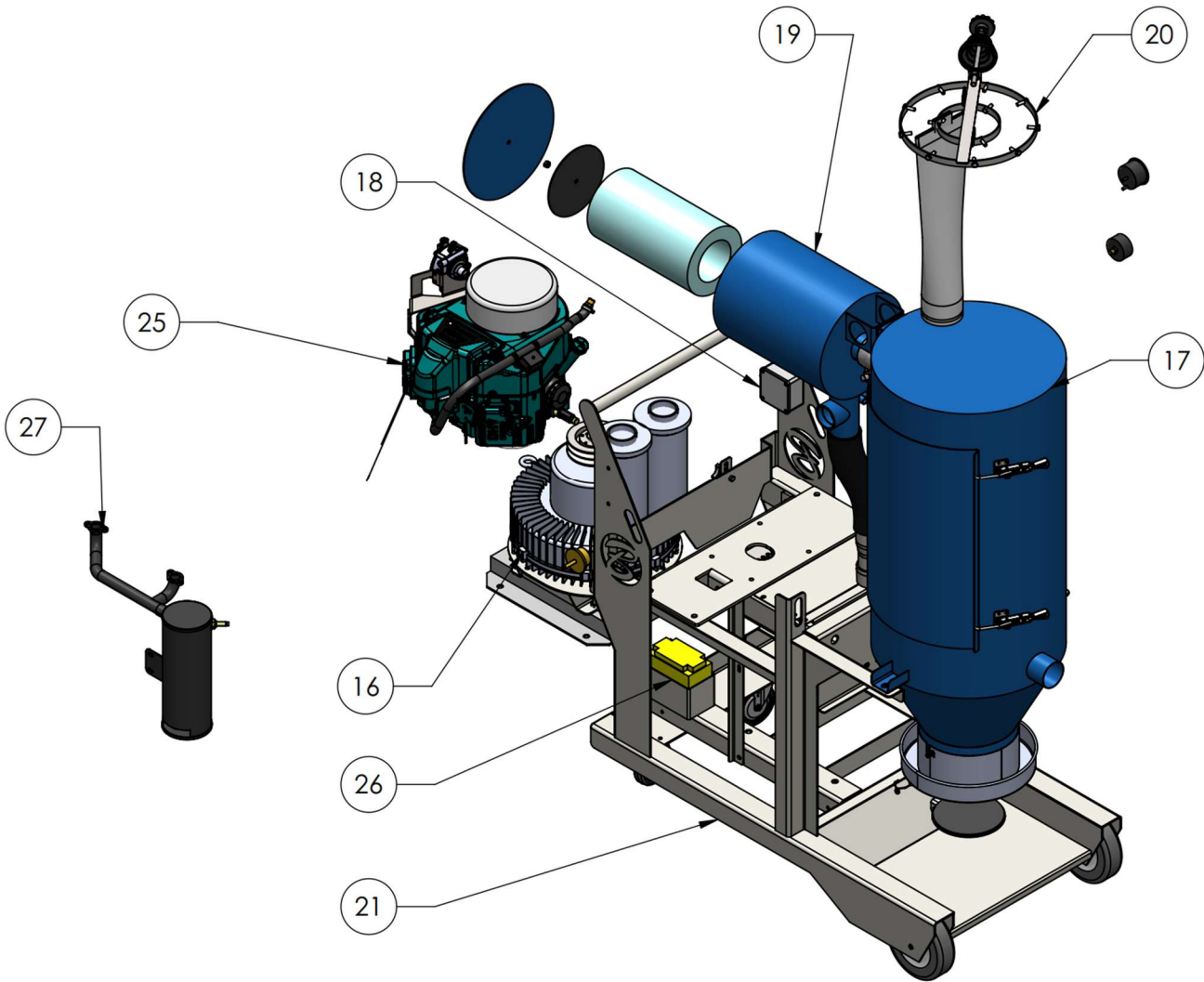
PARTS LIST 3: HD388PRO Assembly



PARTS LIST 3: HD388PRO Assembly

Item No.	Part Number	Description	Qty.
1	320019	Filter Bags, 4" x 23.5"	1 set/12
2	320027	Inline Filter Element, HEPA	1
3	320066	Discharge Flap Kit	1
4	320022	Foam weather stripping, 1/8" thk x 7" dia (PSA)	1
5	320041	Torsion Spring, Discharge Flap	1
6	320024	Gaskets for Filter Housing Service door, Inline Filter, Service door	
7	320016	Caster, Swivel with Brakes, 5"	2
8	320015	Caster, Rigid Wheel, 8"	2
9	320035	Rubber Boot	1
10	320026	Gauge, Vac, 2" Diam x 1/4" Back, 0-30" Hg	1
11	320025	Gauge, DP, 5015, 0-15" Wg	1
12	320042	Vac Relief Valve Assembly, 2.0" NPT, 8" Hg Max, Brass	1
13	320038	Spring, Shaker Rack Suspension	1
14	320031	Knob, 1/2-13 Threaded Hole - Shaker	1
15	320043	V-belts (BX33)	1
22	320029	Interconnect Hose with Hose Clamps	1
23	320014	Blower Inlet Adapter (Fabrication)	1
24	320037	Slide Base with Blower mtg Bracket	1
25	320023	FS 481V Kawasaki Engine - Propane, 14Hp	1
27	320018	Engine Muffler with O2 sensor	1
28	320040	Throttle cable	1
29	320033	Propane Cylinder DOT spec - vapor supply	1
30	320039	Tank Clamp Bracket	1
31	320021	Fluted Knob - UNC 3/8-16" Nut insert	1

PARTS LIST 4: HD388PRO Assembly



PARTS LIST 4: HD1388PRO Assembly

Item No.	Part Number	Description	Qty.
16	320034	RT-801 Bare Shaft Regenerative Blower	1
17	320020	Filter Housing Weldment (Fabrication)	1
18	320030	Key Switch with NEMA4x Enclosure	1
19	320028	Inline Filter Housing (Fabrication)	1
20	320036	Shaker Rack Weldment (Fabrication)	1
21	320032	Main frame (Weldment) incl. Panels	1
25	320023	FS 481V Kawasaki Engine - Propane, 14Hp	1
26	320013	Battery Box with 12V Battery	1
27	320018	Engine Muffler with O2 sensor	1

10. Warranty

Bartell Global warrants to the original buyer, for a period of one (1) year from the date of delivery, that the Equipment is free from defects in materials and workmanship and that the Equipment conforms to the operating specifications supplied with the Equipment. The foregoing warranty is subject to proper operation and maintenance of the Equipment in accordance with the operating instruction and manual supplied to Buyer with the Equipment.

Warranty claims shall be made by Buyer in writing. Bartell Global's sole obligation under the foregoing warranty, where it appears to Bartell Global's satisfaction that the defect was present at the time of delivery, is at Bartell Global's sole option, to repair, replace or correct any such defect.

EXCEPT AS STATED ABOVE THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED. BARTELL GLOBAL EXPRESSLY DISCLAIMS ANY WARRANTY, EXPRESS OR IMPLIED, THAT EQUIPMENT SOLD HEREUNDER IS OF MERCHANTABLE QUALITY OR THAT IT CAN BE USED FOR OR IS FIT FOR ANY PARTICULAR PURPOSE. ANY DESCRIPTION OF THE EQUIPMENT IN THIS AGREEMENT OR IN MANUALS, BROCHURES OR LITERATURE AND ANY USE OF ANY SAMPLE, MODEL OR PROTOTYPE OF THE EQUIPMENT IS FOR THE SOLE PURPOSE OF IDENTIFYING OR ILLUSTRATING THE EQUIPMENT, IS NOT PART OF THE BASIS OF THE AGREEMENT BETWEEN BARTELL GLOBAL AND BUYER, AND DOES NOT CONSTITUTE A WARRANTY THAT THE EQUIPMENT, AS SUPPLIED, WILL CONFORM TO ANY DESCRIPTION OR TO ANY SAMPLE, MODEL OR PROTOTYPE. BARTELL GLOBAL DISCLAIMS ANY WARRANTY RESPECTING OPERATING CAPACITY OR CAPABILITY OF THE EQUIPMENT OR THE ABILITY OF THE EQUIPMENT TO MEET ANY PARTICULAR NEEDS OF THE BUYER. THE EQUIPMENT IS POWERED TO OPERATE AS STATED IN THE OPERATING SPECIFICATIONS SUPPLIED WITH THE EQUIPMENT, BUT IT IS UNDERSTOOD AND AGREED TO BUY BUYER THAT ACTUAL OPERATING CAPABILITIES VARY UNDER DIFFERENT OPERATING CONDITIONS FOR WHICH BARTELL GLOBAL CAN ASSUME NO RESPONSIBILITY.

BUYER'S EXCLUSIVE REMEDY FOR CLAIMS ARISING UNDER THIS AGREEMENT SHALL BE FOR REPAIR OR, AT BARTELL GLOBAL'S SOLE OPTION, REPLACEMENT OF ANY ITEM OF DEFECTIVE EQUIPMENT. BARTELL GLOBAL'S LIABILITY FOR ANY LOSSES OR DAMAGE, WHETHER ON ACCOUNT OF NEGLIGENCE, BREACH, AND WARRANTY OR OTHERWISE SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PARTICULAR ITEM OF EQUIPMENT WITH RESPECT TO WHICH SUCH LOSSES OR DAMAGE OCCURRED.

IN NO EVENT WILL BARTELL GLOBAL BE LIABLE FOR ANY DAMAGES CAUSED BY BUYER'S FAILURE TO PERFORM BUYER'S RESPONSIBILITIES, OR FOR ANY LOST PROFITS, LOST PRODUCTION, LOSS OF ANTICIPATED PROFITS OF OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF BARTELL GLOBAL HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

IN NO EVENT WILL BARTELL GLOBAL BE LIABLE FOR ANY DAMAGES RESULTING FROM ANY CLAIM AGAINST BUYER BY ANY OTHER PARTY.

FACTORY SERVICE

A warranty will not be valid unless a written claim authorization comes with returned parts. Bartell Global will not provide for any shipping costs for items returned for repair. To obtain warranty repairs, buyer must prepay shipment and return all warranty parts to Bartell Global. Damage occurring during shipment is deemed the responsibility of the carrier and claims should be made directly with such carrier. It will be the customer's responsibility to pay for any non-warranty replacement parts plus the current hourly labor rates for any work done on any machine or part. Service is available upon request; call Bartell Global for current labor rates.

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